



SECUROS UVSS

Under Vehicle Surveillance Software-Hardware Based System



SecurOS™ UVSS is a hardware-software based system for remote under-vehicle surveillance. The system creates databases of high-resolution undercarriage images with their respective recognized vehicle license plates.

SecurOS™ UVSS provides high-quality images of the entire width of a vehicle's undercarriage. Moreover, it is a cost-effective and convenient solution for visual inspection of all types of vehicles: from passenger vehicles to trucks and trailers. It is a perfect solution for governmental, military, corporate, and transportation facilities — wherever particular vehicle monitoring is required.

Solution Structure

Basic Hardware

- SecurOS™ UVSS platform (IP68 scanning system with area scan machine vision camera and fish-eye lens), mounted on the roadway
- SecurOS™ UVSS controller (processing server with data storage and integrated video management platform — SecurOS™ Enterprise)
- LPR/ANPR camera
- Operator workstation

Optional: the system can be supplemented with a surveillance camera(s), access control system, barriers, traffic lights, electronic visual display boards, as well as 3rd-party systems.

Software

SecurOS™ UVSS' software is based on ISS' SecurOS video management system which provides:

- Customizable and easy to use operator interface
- Extended functionalities in combination with other ISS SecurOS software modules: Facial recognition (SecurOS™ FaceX), Access Control and Fire Alarm (SecurOS ACS), 2D and 3D maps, situational awareness analytics (SecurOS™ Tracking Kit), and more.
- Embedded APIs offer interoperability and integration with 3rd-party systems including upper level systems as well as 3rd-party security devices such as traffic lights, X-Ray scanners, automatic road barriers and bollards, and more.



High quality undercarriage image, not affected by vehicle's varying speed



Advanced 16-bit HDR processing and automatic gain system, provides images with even illumination under different lighting conditions



Compact UVSS platform does not require time-consuming installation and is easy to maintain



Use of video analytic detectors - no need for physical devices to detect vehicle presence



Integrated license plate recognition system (SecurOS Auto)



Simultaneously shows real-time and archived video from all cameras: scanning camera, LPR/ANPR camera, and surveillance cameras

Specifications

Electrical and Mechanical Parameters	
Scanning Camera	2 MP, area scan machine vision camera
Pixel Density	9 pixels/cm with ground clearance of 5.9" / 150mm (can work with 4.7" / 120mm ground clearance)
Vehicle Maximum Length	Unrestricted
Vehicle width	More than 6.5 ft / 2 meters (with a ground clearance of 5.9" / 150mm)
Load capacity	Up to 30 tons (up to 3 tons for dome protection area)
Maximum Vehicle Speed	10 mph (15 km/h)
Lighting System	White-light LEDs (Strobe mode, synchronized with active shutter. ON/OFF automatically)
Image Processing Time	Up to 3 seconds
Automatic License Plate Recognition	More than 60 countries supported: RF, CIS, Worldwide
IP Rating	IP68
Operating Temperature	-40°F - 140°F; -40°C - +60°C
Power	24 VDC / 50 W
Electromagnetic Immunity & Emissions Certifications	FCC Part 15, Subpart B / EN 55032:2015 / EN 55024:2010 / IEC 61000-6-3:2007+A1:2010 / IEC 61000-6-2:2005
Platform Dimensions (LxWxH)	38" x 12.25" x 7.75"; 970mm x 310mm x 196mm
Platform Weight	Up to 55.1 lbs (25 kg)
Mounting Configuration	Semi-hidden installation (road drilling only for camera protective body)
Warranty	1 Year
Ordering Information	

Technical Illustrations

Illustration dimensions are in millimeters

